Motorists Problems

me information as to how to paint or in the starter itself. my car. The surface is in good condition, with no rust or grease stots, my car are becoming noisy, but if How many coots of paint are neces- I fill the gear-case with oil it runs sary? How is the glossy surface ob- out around the universal joint, wasttained after the last coat of varnish ing the ow. Is there any way to si-

Your question is difficult to an- If the ends of the shafts are not swer because with some good paint provided with stuffing boxes to keep jobs as many as 20 couts are ap- the oil in, you must use a heavier plied. Would not suggest your paint- way is to fit the bearings in a maning you car unless you have had nor to prevent loss of oil. As the experience. After thoroughly clean- wear increases more oil will work ing and sand papering perhaps one out. or two conts would abswer. A cont of the right kind of varnish will Motor Department-In order to give a glossy Spish. Before attempt- prevent overcooling the engine during the job, would suggest that you ing cold weather would it be advisconsult with some experienced auto- able to slip the fan best off the pulley mobile painter in your locality.

enclosed Studebaker sedan car and gine any length of time in the garhave trouble with our windows age it will overheat without a fan. steaming up this cold weather. We You would better cover part of the thought you ought to be able to give radiator with card board or fiber us a solution to this difficulty board, this having been found to be

A little ventilation should overcome the trouble. You might experi-

that about two tablespoonfuls of

The majority of makes have the same shift as the Saxon, which is standard. If you know how to drive well and know the mechanism of your car, you will have no trouble obtaining a license. You can take the examination on your own car.

Motor Department-I have a Ford car with missing cylinders, I have cleaned spark plans, put on new communitor and commutator wiring. ground the valves, cleaned gas tank and drained carburetor, and had the Abrator costs rested, and they are all O. E. Wint do you suggest? Could it be a tireken magnet in the Try changing the earligretor adjustment slightly. Inject oil around the inlet monthold to see if it is draws in at any leaks, and test the spark at each place by removing wire and holding it about a quarter fuch from head of plug while engine is running. Crank engine slowly and note the resistance on each cylinder

Motor Department-I have a 1918 car with a 12 volt storage battery. When water is put in the filler openings and the car run, more water comes out of the tops than I put. in. Please tell me the cause of the trouble. The starter will not work. yet the battery has just been recharged by the manufacturer's

to see if there is less of compres-

sion. The trouble should be located

by these tests.

It would seem that battery is overcharging, due to voltage regulator not being propenly adjusted. If electrolyte is up to its full strength and sterter does not work properly, the

Motor Department-Please give trouble may be in a poor connection

Motor Department-The gears in

or else remove the fan entirely?

Motor Department-We have an By no means. If you run the en-J. J. the best method.

Motor Department-Kindly let me ment by rubbing the glass with a know what is meant by pre-ignition. cloth moistened with a mixture of Fre means before. How can ignition experine and, alcohol. Some say this come before ignition. An explanation

Pre-ignition means ignition be-Motor Department-I have a 1910 fore the proper time or before dead Pierce Arrow and I can't get over center just before the power stroke. 35 miles per hour out of it. If I at- It may be due to spark advanced too tempt to feed it more gas it seems to far, to overheated engine, or to glowshut itself off entirely. I have a gov- ing carbon. The effect is to ignite ernor on the carburetor. Will remov- the gas before dead center, while ing the governor help? Also putting the piston is moving upward. This stronger spring on the valves? Can has a tendency to push the piston anything be done to make it go 50 down, slowing it down and causing or 60 miles? It is a 26 horsepower a knock. To distinguish one from anix cylinder motor. When I slow other, retard spark, If knocking conown to 10 miles an hour and try to tinues look for signs of overheating. ok up in high there seems to be a such as steam at radiator. If engine erk in the clutch until I'm making is not overheating it may be car-5 miles or so and it stops. Will you bon. Remove a spark plug and see indly advise me on the remedy for if it is carbonized. If not, the trousat? It has a compressed air starter | ble is a worn piston or a loose bear-

es per hour. A sound spark, but when the plug is replaced the past year distributed more than vulcanizing department. ente trouble? F. H. | charge because of the resistance of reaches the carburetor. The the gap at atmospheric pressure, yet toms indicate lack of fuel. It when resistance is increased between oubtful whether the governor the points of the gap no spark re-

a sufficient total to and will pay for itself after it has

On the other hand the stark figures given out here.

M. P. | kept in proper condition.

es. In an automobile be started in fereign competition is driving a which shows an average of 38 cents tenances comprising a complete unihigh if the clutch is let in slow with- large proportion of the privately- per car mile with an expense of fied street rallway system. let it out again to start the car, or maintaining our foregn trade route __ must cars have the same shift as a falls, therefore, entirely upon the friend of mine had one and government-owned fleet of the ship- ly to the shipping board.

get a chauffeur's deense? Can a test tained and makes no provision for which private capital can be encour- a deferred payment comprising a forming what none in ten thousand be made on any make of car? Hop- the future. Continued dependence aged to invest in ships under the balance on the contract to be made could accomplish, passes on like spending unnecessarily large operation of such vessels can be You can stact the car in high gear, amounts for the operation of our made possible. With such aid we but this practice places added strain war-built fleet until, in a relatively can sell our efficient shipping board ment the voters of Detroit also apon all the working parts and causes few years that fleet will be worn tonnage of government operation lower speeds should be used for government nor private vessels in ships will steadily progress toward starting and hard pulls. On the Ford foreign trade, for without some pro- a rightful participation in our own you press the pestal all the way out vision making it possible private commerce and form a potent arm of for first speed and when the car has capital will not have been able to defense in case of war. Otherwise attained decired momentum, you let compete with the government and I can see no hope for America on It back all the way for high speed. will have abandoned the field entire- the sea.

Distributes \$50,000 Worth of Tires in This Territory



been connected with the tire bustwill be distributed. Mr. Przybysz Co. at Kent, Ohio. gine we sometimes get a good, hot company for sometime and during tire accessories and will operate a

Joseph Przybysz, who has been \$50,000 worth of these tires in this

of make sure that sufficient gasolinders. While the current may jump Detroit's New Municipal Railway Proves Big Success

and is Able to Give Improved Service.

BY J. A. DARROCK. DETROIT, Mich., Dec. 30 .- (By

U. P.) - The municipally owned

rings should not be necessary. After you have ruined a few spark New Organization is Now Pay- mately \$350,000 per month and the in support of fundamental Ameritaxes, as the city pays taxes the can institutions. ing Off Many Obligations same as a private corporation to Agriculture is fighting its way both city, state and county to the toward independence and prosperi \$.3771 per car mile, leaving net aft- and liberal rural credits and farm er everything has been deducted of marketing legislation may be ex-

\$.0276 per car mile.

me- it is heard. It flattens the bearings infancy, is financially healthy and unique method in establishing actual rapidly developing into a tremen- funded reserves. The reserves are dous success, according to latest not merely a book reserve, but the When your should be kept advanced as far as Besides putting back into the are drawn from the active cash acengine is properly tuned up you possible at all times, just short of property a considerable amount of counts in the banks and placed in should have no trouble in obtaining the point where it makes a knock, money in additions and betterments, another, account from which the The difference in your gasoline bill the city railway department, on De- payments are made as they fall due. vill give you a convincing argument cember 1, paid \$500,000 to the De- This eliminates the possibility of Motor Department-I've been told in favor of a spark well advanced. | troit United Railway, applying on using the money for anything other the semi-annual payment that falls than the purpose it is intended for. kerosene oil in a radiator full of wa- It is advisable to clean and read- due on June 1, 1923. The depart- The properties of the Detroit ter is a great advantage to radiator, just the spark plugs occasionally, ment hopes to pay another half mil- United Railway in this city were as the oil helps to keep radiator from The points burn away gradually and lion dollars shortly after the first of taken over by the city last May. rusting Is it necessary to put kero- if not readjusted cause irregular fir- the new year. By making these Prior to this date the city had alsene oil in the water? Would it do ing. The engine will also throttle payments in advance of the actual ready assumed control of approxi-Let me know and accept better at slow speeds if the plugs are date on which they fall due, the de- mately 20 miles of the Detroit rail- Hit in Eye by Golf partment saves a large amount of way known as the Day-to-Day lines. the rubber hose connections. The SHIPPING OUTLOOK NOT Months of operation, the departandlator is made of material that SO GOOD, SAYS LASKER ment had carried 204,639,795 past over of the remaining properties sengers, made up of 154,434,188 there was placed under the man-Chairman U. S. Shipping Board. revenue passengers and 50,265,607 agement of the department 373 epartment-I am very NEW YORK, Dec. 30 .- (By I. N. transfer passengers with a total of miles of urban street railway, made interested in automobiles, but g.) -The shipping situation for 1923, \$8,259,591.02 received as revenue up entirely of surface lines with know very much about them, so far as the United States is con- from transportation. The total cars, car houses, shops, power . Id like to make a few inquir- cerned, is in grave doubt. Keen miles operated being 21,764,822, houses and the necessary appur-

out injuring the gears, or does the owned tonnage of the country into \$.2757 per car mile. Non-operating Along with the control came addi- I. S.) -In tribute to Miss Melaine driver have to shift into each speed, the coastal and the nearby trade, income and miscellaneous revenue tional fixed financial obligations, as Schute, who taught here for many like low, second and high? Can a where, for statutory or geographic brings the total amount of money the remaining lines were purchased years, the Avondale Mothers' club

> Heavy Bond Issues. With the approving of this agree-

meet the initial payments and pay the Detroit United Railway for inventories of material and supplies that were taken over with the property. There had already been autherized \$15,000,000 worth of pub- Farmers Get \$30,000,000 Year purchase street rallway property. bringing the total fixed obligation to \$36,080,000 after the payment of

the initial amount when the lines The first consideration of the department was to furmsh adequate service and also secure an earning sufficient to meet current expenses, including current fixed obligations and create a reserve, out of which could be paid deferred obligations McDougal, president of the Chicago and maintain the property to as high a standard as possible.

At present the service is considcred far better than when it was controlled by private ownership.

NEEDS U. S. ASSISTANCE BY SEN. JOSEPH T. ROBINSON. WASHINGTON, Dec. 30 .- (By I ecklessly to enter the realm

A crisis in European affairs is a rand. The financial systems of many European countries are strained to the breaking point, and this occasions widespread social, industrial and political unrest. Nineteen twenty-three should wit-

ness a more sympathetic and helpful attitude on the part of the United States toward European problems, particularly as they affect retations with our own government Permanent prosperity of primary American productive industries, agriculture and manufactures cannot be secured without greater stabilization of foreign exchange. This can only come through readjustment of eparations and successful refundng operations respecting the debts of European nations. When our former allies, who are heavily in debt to this government, realize that there will be no cancellation, as a The Mason line is complete in all whole, of their obligations to the In addition to Mason tires Mr. ble and at the same time quicken sllow thump- placing them on the top of the en- has represented the Mason Tire Przybysz will handle rim parts and commerce between Europe and the

> store the popularity of the United States throughout Europe, but this process should begin during 1923. Propaganda, organized by foreign

charges which aggregate approxi- far-reaching, nation-wide reaction

expenses it increases the expense to ty. The passage of well-considered

Ball, He Asks \$5,000

person driving a Ford push the reasons, it is protected against for received up to \$8,809,471.12, or under a contractural agreement for has announced plans for establishchutch all the way down and then eign competition. The burden of \$.4047 per car mile, adding the fixed the total figure of \$19,850,000, with ing a \$5,000 scholarship in the

nor mother of it."

worth of public utility bonds to GAS ENGINE CUTS INTO OAT PRICES

Less Since Trucks and Tractors Enter.

CHICAGO, Dec. 80 .- (By L. N. S.) Substitution of automobile delivery trucks for Old Dobbin in cities, and replacing of farm work horses by tractors, has resulted in \$80,000,000 annual loss to the farmers of the country in lower prices they are able to get for their oats, Robert Board of Trade, told the Horse Owners' Association of America at

their annual meeting here. "Before we were using gasoffne oats prices averaged about 62 cents lower than wheat," McDougal said. ROBINSON SAYS EUROPE "During the last few years oats prices have averaged 65 cents lower han wheat. Our oats crop is usually about 1,000,000,000 bushels. This three-cent drop means \$30,000,000

annual loss to American farmers." | less. also be estimated for hay, he said, 800 oats-fed horses in Chicago. To

The same amount of loss might Ten years ago there were 3,000 because while the hay crop is as day there are only half that num-

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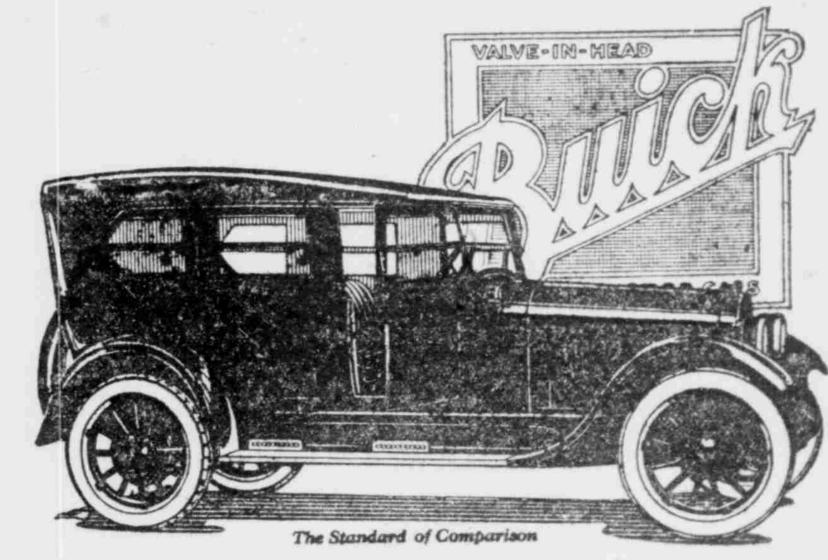
Sullivan-Shaw Tire Co.

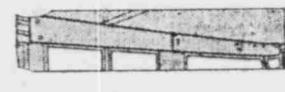
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In addition to fitting perfectly without a gap, the storm curtains on Buick open models are provided with a weather strip or flap which seals the joint so that wind or rain cannot penetrate. Buick open cars, with the curtains in place, have no cracks for cold to penetrate. They are as nearly weather tight as any open car can be.

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The Buick "Model 45" Six Cylinder-\$1195 As complete as has been the development of the enclosed car, Buick designers have not neglected to improve the open type of car, building into it a measure of comfort,

convenience and weather protection surpassed only by the more expensive closed vehicle. Protection against wind and snow is assured by the snugfitting storm curtains that open with the doors. The Buick design of storm curtains with a special weather

strip provides a coziness, comparable to that of any closed

cur, while windshield wiper and tight fitting windshield,

adjustable from within, make driving safe and comfortable. Added to this, and equally important in winter driving, is the splendid performance that a Buick car always produces-its constant and surplus power-its roadability

and perfect balance and its unquestioned dependability.

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